Electronic Version
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Claims

[c1] 1. A universal in-line skating shoe, comprising:
a front base, having a pair of first side plates and a sole plate, wherein the first side plates are connected to the sole plate and each side plate has at least a wheel axle hole;
a rear base, having a pair of second side plates and a heel plate, wherein the second side plates are connected to the heel plate and each second side plate has at least a wheel axle hole;
a shoe body, with a front section fastened to the sole plate and the rear section fastened to the heel plate;
a plurality of wheel assemblies, mounted on the front base and the rear base through the wheel axle holes; and
a pair of replaceable length-adjusting members, wherein one end of each length-adjusting member is connected to the first side plate while the other end of the length-adjusting member is connected to the second side plate.

[c2] 2. The universal in-line skate of claim 1, wherein the skate further comprises:
a pair of wheel extension plates, fastened to the front end of the first side plates, wherein each wheel exten-

sion plate has at least an wheel axle; and
at least an extension wheel assembly, mounted on the wheel axle hole of the wheel extension plates.

[c3] 3. The universal in-line skate of claim 2, wherein each wheel extension plate has a plurality of screw holes and the front end of each first side plate has a plurality of screw holes such that the wheel extension plate and the front end of the side plate can be joined together using screws.

[c4] 4. The universal in-line skate of claim 1, wherein each length-adjusting member further comprises a front connecting section, a rear connecting section and a length extension section such that the front connecting section and the rear connecting section is linked through the length extension section and that the front connecting section is connected to the first side plate of the front base and the rear connecting section is connected to the second side plate of the rear base.

[c5] 5. The universal in-line skate of claim 4, wherein the front connecting section of the length-adjusting member as well as the rear end of the first side plate has a plurality of screw holes such that the front connecting section and the first side plate can be connected using screws.

[c6] 6. The universal in-line skate of claim 4, wherein the rear connecting section of the length-adjusting member as well as the front end of the second side plate has a plurality of screw holes such that the rear connecting section and the second side plate can be connected using screws.

[c7] 7. The universal in-line skate of claim 1, wherein the skate further comprises:
a braking base, having two side surfaces, wherein the side surfaces are fastened to the front end of the first side plates of the front base; and
a braking head, fastened to the braking base, wherein the braking head can be dismantled from the braking base or replaced while the shoe body is still fastened to the front base.

[c8] 8. The universal in-line skate of claim 7, wherein the two side surfaces of the braking base further comprises at least a screw hole and each first plate of the front base have a corresponding screw hole such that the braking base can be fastened to the front base through screws.

[c9] 9. The universal in-line skate of claim 4, wherein the length-adjusting member has a rectangular cross-section.

[c10] 10. The universal in-line skate of claim 9, wherein the rear end of the first side plate has a first groove section and the front end of the second side plate have a second groove section, the front connecting section of the length-adjusting member stacks over and joins up with the first groove section and the rear connecting section of the length-adjusting member stacks over and joins up with the second groove section, and the length extension section has a thickness roughly equivalent to the total thickness of the first side plate and the front connecting section as well as the total thickness of the second side plate and the rear connecting section.

[c11] 11. The universal in-line skate of claim 10, wherein the front connecting section and the rear connecting section of the length-adjusting member have a plurality of screw holes and the first groove section and the second groove section also have a plurality of screw holes so that screws can be used to connect the front connecting section to the first side plate and the rear connecting section to the second side plate.

[c12] 12. The universal in-line skate of claim 1, wherein the length-adjusting member comprises a plate.

[c13] 13. The universal in-line skate of claim 12, wherein the length-adjusting member has a U-shaped cross section.

[c14] 14. The universal in-line skate of claim 12, wherein the length-adjusting member has a C-shaped cross section.

[c15] 15. The universal in-line skate of claim 12, wherein the length-adjusting member has an O-shaped cross section.

[c16] 16. The universal in-line skate of claim 1, wherein the shoe body is fastened to the sole plate and the heel plate using rivets and screws.

[c17] 17. The universal in-line skate of claim 1, wherein the wheel assembly further comprises a wheel, a wheel axle and a bearing, and the bearing is positioned within the central portion of the wheel and the wheel is supported by the wheel axle through the bearing so that the wheel is free to rotate relative to the axle.

[c18] 18. The universal in-line skate of claim 1, wherein the extension wheel assembly further comprises a wheel, a wheel axle and a bearing, and the bearing is positioned within the central portion of the wheel and the wheel is supported by the wheel axle through the bearing so that the wheel is free to rotate relative to the axle.